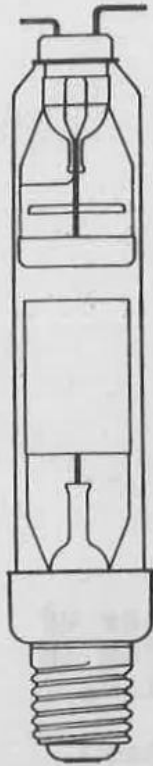


GRID-CONTROL RECTIFIER TUBE

EL C5B

Tantalum Anode and Xenon Gas Filling



D-c. Amperes Output (Max. Rated) 5
 D-c. Meter Value-Continuous 10
 D-c. Meter Value-Overload less than 3 sec. 75
 Oscillograph Peak-Continuously recurring 75

Peak Forward Volts (Max. Instantaneous) 750
 Peak Inverse Volts (Max. Instantaneous) 1500
 Nominal A-c. Volts per Anode 110-440

Average Arc Drop Volts 12
 Highest Tube 9
 Average Tube

Filament 2.5
 Volts 23±3
 Amperes
 Heating Time Approx. 1 min.

Grid Characteristics
 Critical Grid Volts @ p.f.v. -1.5±1.5
 Critical Grid Current Below 10 Microamps
 Maximum Negative Grid Volts 100
 Starting Volts (Instantaneous) 200
 Highest Tube 50
 Average Tube
 Maximum De-ionization Time Approx. 1 Millisecond

Grid-anode Capacity Approx. 10 uuf
 Grid-filament Capacity Approx. 10 uuf

Max. A-c. Short-circuit Current (0.1 sec.) 600A

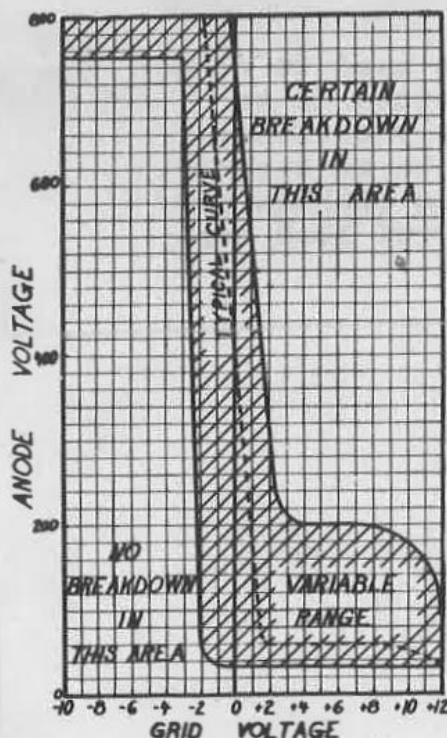
Overall Dimensions 2½ x 11½ x ½"
 Weight 12.5 Ozs.

Connections Mogul Screw Socket
 Filament Pins at top for clip connection
 Anode & Grid

Ambient Temperature Limits -40 to +65°C.

The filament must be lit before the d-c. load is applied.

All of the above values are for returns to the filament center tap.



ELECTRONS, INC.
 127 Sussex Avenue
 Newark, 4, N.J.

Type CEL 1552 may be used in place of a half-wave rectifier tube of similar rating in the usual rectifier circuits. By controlling initiation of the arc with the grid it is possible to adjust the average or d-c. meter reading of the output of the rectifier from zero to the value it would have if half-wave rectifier tubes were used.

The type CEL 1552 may be used to control the speed of a motor. One method is to connect the armature of a separately excited d-c. shunt motor through the tube to an a-c. line. Voltage applied from grid to cathode may then be used to determine the flow of load current to the motor.